

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Yoshihiro HAMAKAWA et al:

Serial No: 09/988,998 (11/21/01)

Filed: Concurrently Herewith

For: Photovoltaic Apparatus and Mass-Producing  
Apparatus for Mass-Producing Spherical  
Semiconductor Particles

) Examiner: A. Diamond

) Group Art Unit:1753

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**COMMISSIONER OF PATENTS**

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**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to Rule 37 C.F.R. §1.51(b), §1.56, §1.97, and §1.98, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449. Any other documents or information submitted for consideration by the Examiner are listed in this paper. A copy of each U.S. and foreign patent, or each publication or portion thereof listed or herein identified is submitted herewith, except that a copy of any U.S. patent application identified herein or any patent, publication or other information listed herein cited or submitted in a prior application relied upon for an earlier filing date under 35 U.S.C. §120 and identified below, is not submitted herewith.

**ADDITIONAL DOCUMENTS OR INFORMATION NOT LISTED ON  
ACCOMPANYING FORM PTO-1449 SUBMITTED FOR CONSIDERATION**

**Notification of Reasons for Refusal dated April 30, 2003, issued to corresponding basic  
Japanese Patent Application No. 2000-358229**


## CERTIFICATION

\_\_\_\_\_ This Information Disclosure Statement is submitted within three months of (i) the filing date of the above-identified U.S. National Patent application, or (ii) the date of entry into the U.S. National Stage of the above-identified International Application, or (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Please charge any additional fees or credit any overpayments in connection with this paper to Deposit Account No. 02-0200.

Respectfully submitted,

  
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Date: June 27, 2003  
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B/O Form PTO-1449  U.S. Department of Commerce Patent and Trademark Office  Information Disclosure Statement by Applicant	Atty. Docket Number <b>HAMA3002/BEU</b>	Serial Number <b>09/988,998</b>
	Applicant <b>Yoshihiro HAMAKAWA et al</b>	
	Filing Date <b>Concurrently Herewith</b>	Group <b>1753</b>

## U.S. Patent Documents

Examiner Initial	Document Number	Date	Patentee/Applicant	Class	Subclass	Filing Date if Appropriate

## Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country/Agency	Class	Subclass	Translation	
						Yes	No
	JP6013633	1/21/94	JAPAN			X	
	JP2002134766	5/10/02	JAPAN			X	
	JP2002050780	2/15/02	JAPAN			X	

## Other Documents (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Russell R. Schmit et al; "RECENT PROCESS IN THE DESIGN AND FABRICATION OF SPHERAL SOLAR MODULES"; January 1993; pp. 1078-1081; Conference Record of the 23 <sup>rd</sup> IEEE Photovoltaic Specialists Conference; Dallas, Texas (USA)

Examiner	Date Considered
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EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.